

## PREPARATION OF ACRYLIC ACID HYDRAZIDE POLYMER COMPOUND

**Patent number:** JP56002306  
**Publication date:** 1981-01-12  
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**Classification:**  
- **international:** C02F1/56; C08F8/30; C02F1/54; C08F8/00; (IPC1-7): C02F1/56; C08F8/30; D21H3/38  
- **european:**  
**Application number:** JP19790078515 19790620  
**Priority number(s):** JP19790078515 19790620

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### Abstract of JP56002306

**PURPOSE:** To prepare an acrylic acid hydrazide polymer compound having chelate-forming properties with heavy metal ions and formalin-absorbing properties, by reacting an acrylamide polymer or an acrylic acid ester polymer with hydrazine hydrate in an aqueous solvent. **CONSTITUTION:** An acrylamide or acrylic acid ester polymer expressed by the formula (Y is amide or ester group; n is 50-50,000) is reacted with hydrazine hydrate in an aqueous solvent at 40-100 deg.C, preferably at 60-80 deg.C in the presence of a water-soluble inorganic salt of an alkaline earth metal (e.g. calcium chloride). After the completion of the reaction, the reaction mixture is poured into a large amount of methanol, and the white precipitate obtained is purified by repeating the dissolution and precipitation to give the desired polymer. **USE:** Paper strength-increasing agents for paper manufacture, formalin-absorbing agents, heavy metal scavengers, etc.

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